

SUBSTITUTE FOR FORM 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	09/674,368
Filing Date		April 29, 1999	
First Named Inventor		Thomas N. Metcalf, III	
Group Art Unit			
Examiner Name			
Attorney Docket Number		ACY33,377	

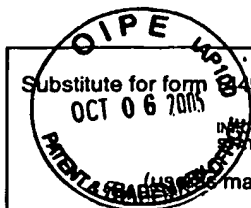
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number (If known)	Kind Code (If known)			
/BG/	1.	4,443,431		Buchanan, T. M., et al.	04-17-1984	
/BG/	2.	4,702,911		McMichael, J. C.	10-27-1987	
/BG/	3.	5,098,998		Mekalanos, J. J., et al.	03-24-1992	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (If Known)				
/BG/	4.	EP	0 202 260 B1		Mattick, J. S., et al.	06-03-1992		<input type="checkbox"/>
	5.	PCT	WO 92/13871		Normark, S., et al.	08-20-1992		<input type="checkbox"/>
	6.	PCT	WO 93/11791		Smith, A. W.	06-24-1993		<input type="checkbox"/>
	7.	PCT	WO 94/00153		Prieels, J., et al.	01-06-1994		<input type="checkbox"/>
	8.	PCT	WO 94/08013		So, M. Y.	04-14-1994		<input type="checkbox"/>
/BG/	9.	PCT	WO 96/31618		Sparling, P., et al.	10-10-1996		<input type="checkbox"/>

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.		T
/BG/	10.	ACHTMAN, M., et al.; The Journal of Infectious Diseases 165:53-68 (1992)	<input type="checkbox"/>	
	11.	AHO, E. L., et al.; Infection and Immunity 65:7:2613-2620 (July 1997)	<input type="checkbox"/>	
	12.	ALVES, A. M. B., et al.; American Society for Microbiology, Abstract E-79, Page 253 (1997)	<input type="checkbox"/>	
	13.	BOSLEGO, J. W., et al.; Vaccine 9:154-162 (March 1991)	<input type="checkbox"/>	
	14.	BUCHANAN, T. M., et al.; Bacterial Vaccines, Chapter 21, Pages 160-164 (1982)		
	15.	CARRICK, C. S., et al.; Gene 198:89-97 (October 1997)		
	16.	DAVIES, J. K., et al.; Fimbriae, Adhesion, Genetics, Biogenesis and Vaccines, Chapter 10, Pages 147-155 (1994)	<input type="checkbox"/>	
	17.	EISENSTEIN, B. I. and KOOMEY, J. M.; Recombinant DNA Vaccines: Rationale and Strategies, Chapter 5, Pages 89-113 (1992)	<input type="checkbox"/>	
	18.	ELLEMAN, T. C., et al.; Infection and Immunity 51:1:187-192 (January 1986)	<input type="checkbox"/>	
	19.	EMERY, D. L., et al.; Australian Veterinary Journal 61:7:237-238 (July 1984)	<input type="checkbox"/>	
	20.	FOREST, K. T. and TAINER, J. A.; Vaccines 97, Pages 167-173 (1997)	<input type="checkbox"/>	
	21.	GUPTA, R. K., et al.; Vaccine 13:14:1263-1276 (October 1995)		
	22.	HECKELS, J. E.; Clinical Microbiology Reviews 2 (Suppl.), Pages S66-S73 (April 1989)	<input type="checkbox"/>	
	23.	HOYNE, P. A., et al.; Journal of Bacteriology 174:22:7321-7327 (November 1992)	<input type="checkbox"/>	
	24.	HULL, R. A., et al.; Infection and Immunity 33:3:933-938 (September 1981)	<input type="checkbox"/>	
	25.	LEPPER, A. W. D.; Australian Veterinary Journal 65:10:310-316 (October 1988)	<input type="checkbox"/>	
	26.	LEVINE, M. M., et al.; Fimbriae, Adhesion, Genetics, Biogenesis and Vaccines, Chapter 18, Pages 255-270 (1994)	<input type="checkbox"/>	
	27.	MAKRIDES, S. C.; Microbiological Reviews 60:3:512-538 (September 1996)		
	28.	MARINARO, M., et al.; Annals New York Academy of Sciences, 795:361-365 (October 1996)	<input type="checkbox"/>	
	29.	MEYER, T. F., et al.; Cell 30:45-52 (August 1982)	<input type="checkbox"/>	
	30.	NASSIF, X., et al.; Gene 192:149-153 (June 1997)		
	31.	O'MEARA, T. J., et al.; Immunology and Cell Biology 71:473-488 (1993)	<input type="checkbox"/>	
	32.	OLAFSON, R. W., et al.; Infection and Immunity 48:2:336-342 (May 1985)	<input type="checkbox"/>	
	33.	PERRY, A. C. F., et al.; Gene 60:85-92 (1987)		
	34.	POTTS, W. J. and SAUNDERS, J. R.; Molecular Microbiology 2:5:647-653 (1988)	<input type="checkbox"/>	
	35.	ROBINSON, E. N. Jr., et al.; Molecular Microbiology 3:1:57-64 (1989)	<input type="checkbox"/>	
/BG/	36.	ROTHBARD, J. B., et al.; Proc. Natl. Acad. Sci. USA 82:915-919 (February 1985)	<input type="checkbox"/>	

Examiner Signature	/Brian Gangle/	Date Considered	03/27/2007
--------------------	----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1849/PTO OCT 06 2005 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (US 9/000,000) many sheets as necessary		<b>Complete if Known</b>	
Application Number		09/674,368	
Filing Date		April 29, 1999	
First Named Inventor		Thomas N. Metcalf, III	
Group Art Unit			
Examiner Name			
Attorney Docket Number		ACY33,377	
Sheet	2	of	2

RECEIVED  
OCT 13 2005  
TECH CENTER 16012900

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) data, page(s), volume-issue number(s), publisher, city and/or country where published.	T
/BG/	37.	ROTHBARD, J. B. and SCHOOLNIK; Adv. Exp. Med. Biol. 185:247-273 (1985)	<input type="checkbox"/>
	38.	SAUKKONEN, K. and LEINONEN, M.; Gonococci and Meningococci, Pages 815-820 (1986)	<input type="checkbox"/>
	39.	SCHOOLNIK, G. K., et al.; Journal of Experimental Medicine 159:1351-1370 (May 1984)	<input type="checkbox"/>
	40.	SEIFERT, H. S., et al.; Vaccine 6:107-109 (April 1988)	<input type="checkbox"/>
	41.	SEIFERT, H. S.; Molecular Microbiology 21:3:433-440 (1996)	<input type="checkbox"/>
	42.	SPARLING, P. F., et al.; Proc. Natl. Acad. Sci. USA 91:2456-2463 (March 1994)	<input type="checkbox"/>
	43.	STEPHENS, D. S.; Clinical Microbiology Reviews 2 (Suppl), Pages S104-S111 (April 1989)	<input type="checkbox"/>
	44.	STEWART, D. J., et al.; Australian Veterinary Journal 62:5:157-155 (May 1985)	<input type="checkbox"/>
	45.	STEWART, D. J., et al.; Veterinary Microbiology 27:283-293 (1991)	<input type="checkbox"/>
	46.	STROM, M. S. and LORY, S.; Annu. Rev. Microbiol. 47:565-596 (1993)	<input type="checkbox"/>
	47.	TENNENT, J. M. and MATTICK, J. S.; Fimbriae, Adhesion, Genetics, Biogenesis and Vaccines, Chapter 9, Pages 127-146 (1994)	<input type="checkbox"/>
	48.	TRAMONT, E. C.; Clinical Microbiology Reviews 2 (Suppl), Pages S74-S77 (April 1989)	<input type="checkbox"/>
	49.	TRAMONT, E. C., et al.; J. Clin. Invest. 68:881-888 (October 1981)	<input type="checkbox"/>
/BG/	50.	VIRJI, M., et al.; Molecular Microbiology 10:5:1013-1028 (1993)	<input type="checkbox"/>

Examiner Signature	/Brian Gangle/	Date Considered	03/27/2007
--------------------	----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.